



	Time	Path	Path	Numbe	er of	Estin	nated		June 1999
	Local/	Length	Width	Perso	ons	Dar	nage		
<u>Location</u> Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MICHIGAN, East

Genesee County 3 SW Mt Morris to Genesee

01 1720EST 0 0 Flash Flood

Scattered thunderstorms developed in the afternoon over southeast Michigan, ahead of a cold front that was slowly moving south. A cluster of thunderstorms remained nearly stationary from 4 to 830 pm EDT across Mt Morris and Genesee Townships, as well as the north side of the city of Flint. Radar estimated nearly 4 inches of rain fell, most of that in the first two and a half hours. The heaviest rain fell in the city of Mt Morris, where a spotter reported 3.3 inches of rain by 7 pm.

The resulting flash flooding closed numerous roads in the area, including Dort Highway, Pierson Road, Pasadena Avenue, Saginaw Road, and Clio Road. Several vehicles had to be rescued from high water at a railroad underpass at the junction of Pierson Road and Dort Highway.

MIZ069 Oakland

07 1300EST 0 2 Excessive Heat

An early summer heat wave brought temperatures in the upper 80s to lower 90s to southeast Michigan on the 6th through the 12th. The warmest temperatures were in the metro Detroit area. These readings approached record highs for those dates. One new record high was set, that being 91 degrees in Flint on the 10th. Two children overdid things while playing outside on the 7th, and were treated at a Pontiac hospital for heat exhaustion.

Livingston County						
Fowlerville	09	1640EST	0	0		Hail (1.00)
Genesee County						
4 W Linden to Linden	09	1703EST 1709EST	0	0		Hail (1.25)
Genesee County						
4 NW Fenton to Grand Blanc	09	1734EST 1744EST	0	0		Hail (1.75)
Genesee County						
4 NW Fenton	09	1734EST	0	0		Thunderstorm Wind (G56)
Genesee County						
Swartz Creek	09	1737EST	0	0		Hail (0.75)
Genesee County						
Atlas to 2 S Davison	09	1752EST 1800EST	0	0	30K	Thunderstorm Wind (G60)
Lapeer County						
1 E Lapeer	09	1835EST	0	0	5K	Thunderstorm Wind (G55)

A warm and humid summertime airmass was present across southeast Michigan. A cluster of thunderstorms tapped the available instability and became severe as they crossed Livingston, Genesee, and Lapeer Counties

These thunderstorms produced large amounts of hail early in their lifetimes. The largest hail report was of golfball sized hail from a spotter near Fenton. The thunderstorms evolved into damaging wind producers as they matured. Many large trees were downed from Grand Blanc, east to the city of Lapeer. In Atlas Township (Genesee County), a large building had part of its roof removed, and a trailer was overturned.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimate Damag Property	ed ge Crops	June 1999 Character of Storm
MICHIGAN, East									
Huron County Sebewaing	10	1530EST			0	0			Hail (1.00)
Oakland County 3.5 NNE Farmington to Birmingham	10	1745EST			0	0	20K		Thunderstorm Wind (G55)
Midland County Midland	10	1835EST			0	0			Hail (0.88)
Midland County Sanford	10	1930EST			0	0			Hail (0.75)
Midland County Midland	10	2000EST			0	0	3K		Thunderstorm Wind (G52)
Midland County 1 S Midland	10	2025EST			0	0	4K		Thunderstorm Wind (G52)
Midland County Hope to 2.5 NW Midland	10	2117EST 2124EST			0	0			Hail (1.00)
Midland County 5 NE Midland	10	2131EST			0	0			Hail (0.75)

It was another hot and humid day in southeast Michigan. Thunderstorms developed in the afternoon hours along the leading edge of the lake breeze boundaries, as they pushed inland from Saginaw Bay and Lake St Clair. The strongest storms during the late afternoon and evening produced very heavy rain and some hail. Relatively few storms produced strong wind gusts. A thunderstorm in southern Oakland County downed a few trees and power lines early in the evening, and a couple of cars were hit by falling tree.

During the evening, severe thunderstorms developed repeatedly over Midland County. Some locations within the county saw severe weather on multiple occasions during the evening. Again, most of the reports were of large hail, but a few trees and large limbs were downed as well. In addition, radar estimated over 5 inches of rainfall on the far west side of the city of Midland during the evening. Surprisingly, no significant flooding was reported - most likely due to antecedent dry conditions, and the mainly rural nature of the area where the heaviest rain fell.

Midland County Sanford to 2 N Midland

11 1705EST 1715EST 0 0 10K

Thunderstorm Wind (G52)

The warm and humid weather continued across the region. In fact, warm air aloft prevented thunderstorms from developing across most of southeast Michigan. However, thunderstorms did develop in western lower Michigan along the Lake Michigan lake breeze front in the afternoon. These storms moved northeast, reaching Midland County very late in the afternoon. Damaging wind gusts affected much of the county, which had been hit hard by severe thunderstorms the previous night. Large tree limbs were downed, mainly in a swath near US 10 from Sanford to just north of Midland.

Wayne County
Woodhaven
Macomb County
2 W Mt Clemens to
6 NW Mt Clemens

12	1245EST	0	0	5K	Thunderstorm Wind (G52)
12	1425EST	0	0	15K	Lightning

Lightning struck several homes in Clinton and Macomb Townships. Bricks were torn off a chimney on one home, and an attic fire was started in another.





		Time	Path	Path Path		per of	Estimated		June 199	•
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	sons Injured	Damage Property Cr	ops	Character of Storm	
MICHIGAN, East										
Macomb County 5 N Mt Clemens	12	1432EST 1440EST			0	0	4K		Thunderstorm Wind (G52)	
Macomb County Memphis	12	1500EST			0	0			Hail (0.75)	
St. Clair County 3 S Emmett	12	1525EST			0	0	6K		Thunderstorm Wind (G52)	
Monroe County Dundee	12	1534EST			0	0	3K		Thunderstorm Wind (G52)	
Monroe County Dundee	12	1604EST			0	0	5K		Thunderstorm Wind (G52)	
Oakland County Southfield	12	1625EST 2030EST			0	0	5K		Flash Flood	
Wayne County Redford to Dearborn	12	1625EST 2030EST			0	0	25K		Flash Flood	
Monroe County 6 N Temperance	12	1640EST			0	0	5K		Thunderstorm Wind (G52)	
Wayne County Redford	12	1640EST			0	0			Hail (1.00)	
Wayne County Redford	12	1640EST			0	0	200K		Thunderstorm Wind (G65)	
Washtenaw County 5 N Ypsilanti	12	1641EST			0	0			Hail (0.88)	
Oakland County Royal Oak	12	1650EST			0	0	12K		Thunderstorm Wind (G52)	
Wayne County Inkster to Dearborn	12	1655EST 1657EST			0	0	20K		Thunderstorm Wind (G56)	
Lenawee County 5 SW Adrian	12	1710EST			0	0	5K		Thunderstorm Wind (G52)	
Washtenaw County Ypsilanti	12 Lightr	1720EST ning struck an apa	urtment buildin	g and started	0 d a fire.	0	10K		Lightning	
Genesee County Flint	12 Lightr	1745EST	as he was unlo	oading groce	0 eries from h	1 is car. He	was briefly hos	nitalizec	Lightning d. but was not seriously hurt.	

Lightning struck a man as he was unloading groceries from his car. He was briefly hospitalized, but was not seriously hurt.

Yet another hot and humid day for southeast Michigan, producing an unstable atmosphere prone to thunderstorm development. The first thunderstorms developed early in the afternoon along lake breeze boundaries off of Lake Erie and Lake St Clair. Additional storms developed along the outflow boundaries from the initial thunderstorms, and things quickly snowballed from there

Most of the severe thunderstorms produced either marginally severe hail, or damaging wind gusts that downed trees and power lines. The most widespread damage was in Redford, where two homes and several cars suffered extensive damage after being hit by toppled trees. Trees were also downed onto cars in Royal Oak. A swath of tree damage also occurred from Inkster to Dearborn. Sheriffs reported a 60 mph gust in Macomb Township, and a 65 mph gust in Inkster.

The same thunderstorm that produced severe weather in Redford also contributed to flash flooding there, and in the surrounding communities. About three inches of rain fell during the severe thunderstorm, with over five inches of rain for the event as a whole. This produced substantial urban flooding in Southfield, Redford, and Dearborn. Warren Avenue, Michigan Avenue, and Eight Mile Road were among the major highways that saw flooding. Many homes suffered basement flooding in this heavily urbanized area.





		Time Local/	Path Length	Path Width	Numb Pers	oer of sons		nated nage		June 1999
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MICHIGAN, East

Some side streets in Redford had standing water into the following day.

Monroe County Monroe	13	1410EST	0	0	3K	Thunderstorm Wind (G56)
Monroe County 1 E Ottawa Lake to Temperance	13	1436EST	0	0	20K	Thunderstorm Wind (G52)

This was the last in a string of humid days, as a cold front dropped south across southeast Michigan that night. The atmosphere was still unstable enough to support a fifth straight day of severe weather. However, clouds covered much of the region for most of the day, limiting the available instability. Only in the far south, near the Ohio border, did substantial sunshine occur. It was here where the only severe thunderstorms of the day developed.

Once again, lake breezes played a role in initiating thunderstorms. This day, a lake breeze off of Lake Erie generated a severe thunderstorm that downed two trees in the city of Monroe. A trained spotter estimated 65 mph wind gusts with this storm. A second severe thunderstorm developed to the southwest soon after, downing numerous trees in Whiteford and Bedford Townships. One home was damaged when a tree fell on it. A Monroe County Sheriff estimated 60 mph winds in this area.

Shiawassee County						
Byron	28	2020EST	0	0	4K	Thunderstorm Wind (G52)
Oakland County						
Holly to 2 E Ortonville	28 29	2140EST 0045EST	0	0	15K	Flash Flood
St. Clair County						
Sparlingville	28	2200EST	0	0	6K	Thunderstorm Wind (G52)

A slow moving cold front was drifting southeast across Michigan, with a weak area of low pressure moving northeast along the front. These helped numerous thunderstorms develop during the evening and nighttime hours. Only a couple of these became severe, with trees and power lines downed in Byron and Sparlingville.

Training of thunderstorms occurred for a short time in the evening in northern Oakland County. A spotter measured 3.64 inches of rain from 845 pm to 1045 pm EDT in Ortonville. Runoff caused flash flooding in northern Oakland County, with several gravel roads washed out in rural areas, and some street flooding in the towns of Holly and Ortonville.